CLAIMS

1. Abinder composition for an electrode for an electric double layer capacitor comprising a binder polymer and water, wherein said binder polymer comprises:

50 to 98% by mole of monomer units (a) derived from a compound represented by the following general formula:

CH₂=CR¹-COOR² (1)

wherein R^1 represents a hydrogen atom or an alkyl group, and R^2 represents an alkyl group having 2 to 18 carbon atoms or a cycloalkyl group having 3 to 18 carbon atoms,

1 to 30% by mole of monomer units (b) derived from an α,β -ethylenically unsaturated nitrile compound, and

0.1 to 10% by mole of monomer units (c) derived from a multifunctional ethylenically unsaturated carboxylic acid ester;

has a glass transition temperature from -80 to 0°C.

- 2. The binder composition for the electrode for the electric double layer capacitor according to claim 1, wherein the binder polymer further comprises 1 to 10% by mole of monomer units (d) derived from an ethylenically unsaturated carboxylic acid.
- 3. The binder composition for the electrode for the electric double layer capacitor according to claim 1 or 2, wherein the particle diameter of the binder polymer is from 50 to 1000 nm.
- 4. A slurry for an electrode for an electric double layer capacitor, comprising the binder composition for the electrode

for the electric double layer capacitor as claimed in any one of claims 1 to 3, and a carbonaceous material.

- 5. The slurry for the electrode for the electric double layer capacitor according to claim 4, wherein the carbonaceous material comprises active carbon having a specific surface area of 30 $\rm m^2$ or more.
- 6. The slurry for the electrode for the electric double layer capacitor according to claim 4 or 5, further comprising a thickener.
- 7. A process for producing an electrode for an electric double layer capacitor, wherein the slurry for the electrode for the electric double layer capacitor as claimed in any one of claims 4 to 6 is applied onto a current collector, and then dried.
- 8. The process for producing the electrode for the electric double layer capacitor according to claim 7, wherein the drying is performed at the temperature from 120 to 250°C.
- 9. An electrode for an electric double layer capacitor, wherein an electrode layer is bound onto a current collector, the electrode layer comprising a carbonaceous material and a binder polymer which

comprises:

50 to 98% by mole of monomer units (a) derived from a compound represented by the following general formula:

$$CH_2 = CR^1 - COOR^2$$
 (1)

wherein R^1 represents a hydrogen atom or an alkyl group, and R^2 represents an alkyl group having 2 to 18 carbon atoms or a cycloalkyl group having 3 to 18 carbon atoms,

1 to 30% by mole of monomer units (b) derived from an α,β -ethylenically unsaturated nitrile compound, and

0.1 to 10% by mole of monomer units (c) derived from a multifunctional ethylenically unsaturated carboxylic acid ester; and

has a glass transition temperature from -80 to 0°C.

- 10. The electrode for the electric double layer capacitor according to claim 4, wherein the binder polymer further comprises 1 to 10% by mole of monomer units (d) derived from an ethylenically unsaturated carboxylic acid.
- 11. An electric double layer capacitor having the electrode for the electric double layer capacitor as claimed in claim 9 or 10.